

# Summer 2002 Electric Reliability

Central Illinois Light Company

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Summary

- Forecasted 20% Operating Reserve in 2002.
- No sub-transmission lines, distribution Feeders or substation transformers estimated to be loaded 100% or greater.

## Expected Peak Summer Load 2002

- 1228 Megawatts (July)
  - CILCO uses a model developed by Regional Economic Research, INC. (RER).
    - Includes regression and neural network statistical analysis.
    - Includes weather variables and economic growth trends.
  - Individual customer surveys are conducted representing approximately 50% of the aggregate non-residential load.

## Possible “Worse-Case” Expected Peak Summer Load

- 1294 Megawatts
  - Peak determined using a multiple scenario approach.
  - Forecasting model was simulated with the actual weather that occurred for each of the years 1970 to 2001, resulting in 30 alternative scenarios.
  - Largest monthly peak value from these scenarios was determined to be the “worse-case” peak.
  - “Worse-Case” peak fell in August and was simulated using the hottest weather

from the last 30 years.

## **2002 Expected Resources Transmission System Reliability**

- No transmission facilities anticipated to be loaded above 100% during expected or worse case peak.
  - Based on results of the NERC Planning Standards Assessment under normal conditions, single contingencies, multiple contingencies, and extreme contingencies.
  - Assessment performed during 2001 for year 2002.
  - Assessment performed during 2002 for year 2003.

## **Sub-transmission, Substation and Feeder Reliability**

- No sub-transmission lines, distribution feeders or substation transformers estimated to be loaded 100% or greater.
  - Three phase loadings estimated by examining previous five years of loading history.
  - New business development for 2002 included in examination.
  - Worse case loading conditions could not be determined.

### **Scheduled Maintenance**

**May 15, 2002 - September 15, 2002**

- Sterling Peaking Units
  - Scheduled May 19th – June 1<sup>st</sup>
  - Total 30 MWs

## **Adequate Supply to Customers' Loads**

- CILCO OASIS activities transferred from MAIN to the Midwest Independent System Operator.
- CILCO not aware of any transmission limitations which would inhibit adequate supply to load.
- MAIN 2002 Summer Transmission Assessment Study did not reveal any CILCO transmission facilities as limiting elements to power transfer.
- No sub-transmission lines, distribution feeders or substation transformers anticipated to limit power flows to customers' loads.